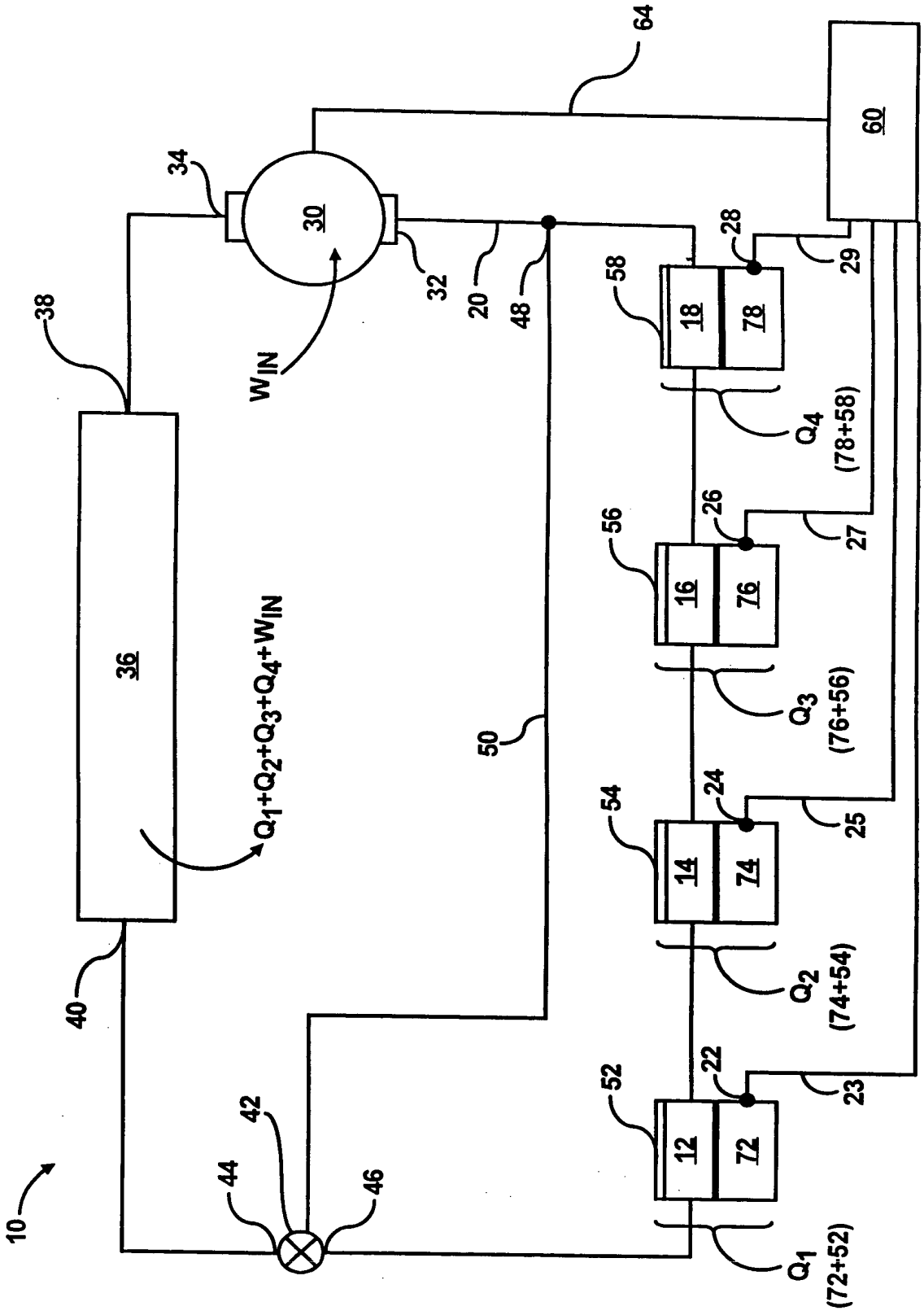
10
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54
56
58
60
64
72
74
76
78
W_{IN}
$Q_1+Q_2+Q_3+Q_4+W_{IN}$
Q_1 (72+52)
Q_2 (74+54)
Q_3 (76+56)
Q_4 (78+58)

FIG. 1

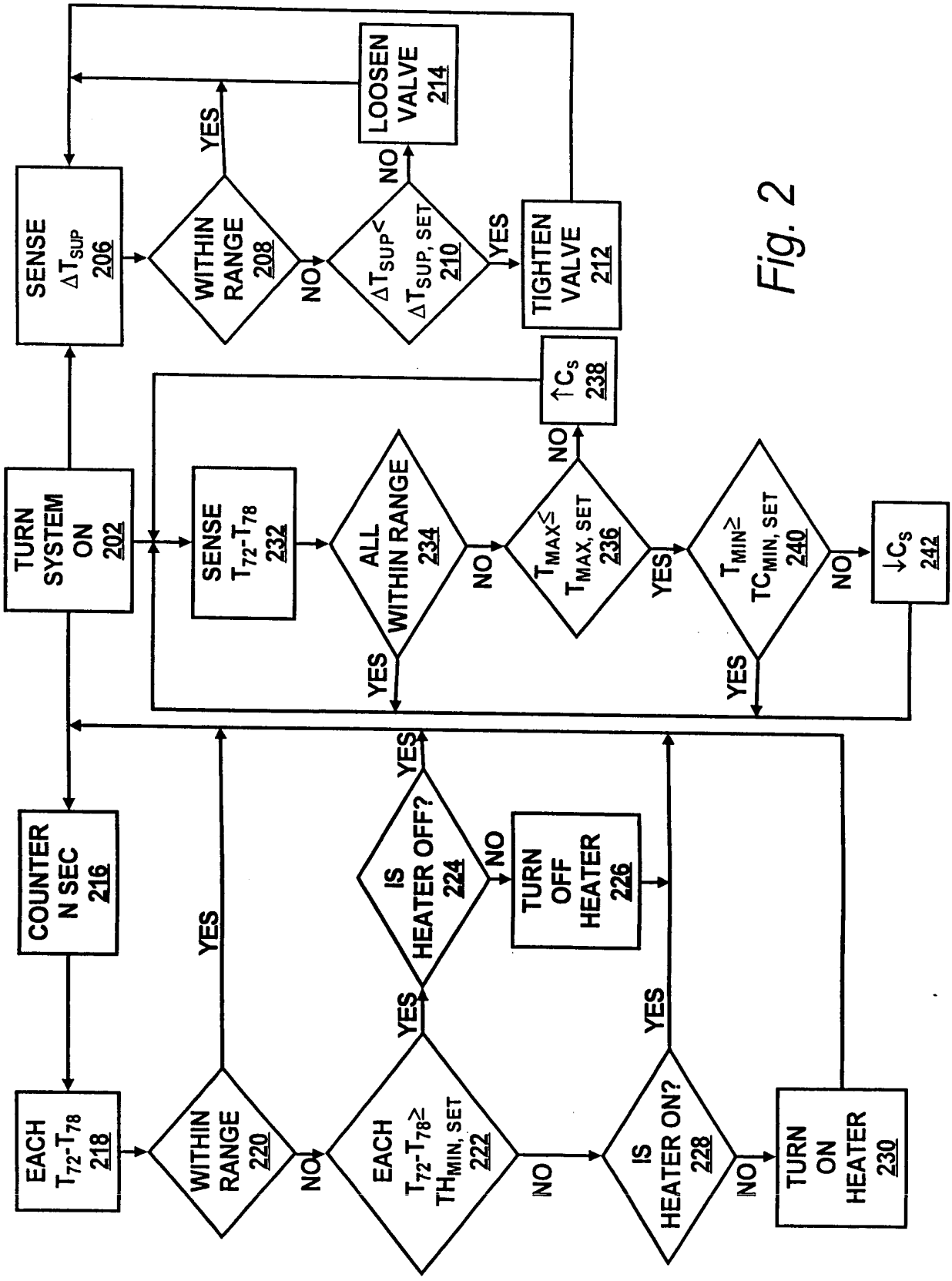
TURN SYSTEM ON 202
SENSE ΔT_{SUP} 206
WITHIN RANGE 208
YES
NO
LOOSEN VALVE 214
$\Delta T_{SUP} < \Delta T_{SUP, SET}$ 210
NO
YES
TIGHTEN VALVE 212
SENSE T_{72}-T_{78} 232
ALL WITHIN RANGE 234
NO
YES
$T_{MAX} \leq T_{MAX, SET}$ 236
NO
YES
$\uparrow C_S$ 238
$T_{MIN} \geq TC_{MIN, SET}$ 240
NO
YES
$\downarrow C_S$ 242
COUNTER N SEC 216
EACH T_{72}-T_{78} 218
WITHIN RANGE 220
YES
NO
EACH T_{72}-$T_{78} \geq TH_{MIN, SET}$ 222
YES
NO
IS HEATER OFF? 224
YES
NO
TURN OFF HEATER 226
IS HEATER ON? 228
YES
NO
TURN ON HEATER 230

Fig. 2